

File 2:INSPEC 1898-2007/Sep W2
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File 6:NTIS 1964-2007/Sep W3
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File 8:Ei Compendex(R) 1884-2007/Sep W2
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(c) 2007 CSA.

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File 144:Pascal 1973-2007/Sep W1
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group

File 603:Newspaper Abstracts 1984-1988
(c)2001 ProQuest Info&Learning

File 483:Newspaper Abs Daily 1986-2007/Sep 16
(c) 2007 ProQuest Info&Learning

Set	Items	Description
S1	21174	FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR
S2	1336281	DISTANCE? ? OR SPACING? ?
S3	140031	S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)
S4	681372	THRESHOLD? ?
S5	12842	S3(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?)
S6	357902	SPEECH? ?
S7	13784	AU=(SAITO, M? OR SAITO M?)
S8	7	S7 AND S1
S9	0	S8 AND (S3 OR S5)
S10	0	S8 AND S2
S11	6	S1 AND S5
S12	4	S11 NOT PY=>2003
S13	3	RD (unique items)
S14	75	S1 AND S3

S15 3 S14 AND S4
 S16 3 S15 NOT S13
 S17 1 S16 NOT PY=>2003
 S18 51 S14 AND S6
 S19 7 S18 AND (AJUST? OR REDUC? OR CHANG?)
 S20 5 S19 NOT (S17 OR S13)
 S21 3 S20 NOT PY=>2003
 S22 3 RD (unique items)

13/9,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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05973297 INSPEC Abstract Number: B9507-6130-080, C9507-1250C-053

Title: Closed-phase glottal inverse filtering by means of a compound auto-regressive model

Author(s): Schoentgen, J.; Azami, Z.

Author Affiliation: Inst. of Phonetics, Univ. Libre de Bruxelles, Belgium
p.209-12

Publisher: IDIAP, Martigny, Switzerland

Publication Date: 1994 Country of Publication: Switzerland xii+238
pp.

Conference Title: Proceedings of Workshop on Automatic Speaker Recognition, Identification and Verification

Conference Date: 5-7 April 1994 Conference Location: Martigny, Switzerland

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T); Experimental (X)

Abstract: The article concerns techniques for obtaining, representing and comparing voice source signals. Closed-phase **formant frequencies** and bandwidths were estimated by fitting two linear auto-regressive models to a glottal cycle (the first to the open, the second to the closed phase). The moment of switching from one sub-model to the next was automatically determined by minimizing the overall modelling error. The voice source signal was obtained by inverse filtering speech by means of the closed-phase formants. Its spectrum was represented by a nonlinear zero-memory Volterra model. Two source signals were compared by means of their **minimal spectral distance** which was obtained by **adjusting** the nonlinear gain of the Volterra model. (6 Refs)

Subfile: B C

Descriptors: acoustic analysis; autoregressive processes; filtering theory; frequency estimation; signal representation; speaker recognition; speech processing

Identifiers: closed-phase glottal inverse filtering; compound auto-regressive model; voice source signals; closed-phase **formant frequencies**; closed-phase formant bandwidths; linear auto-regressive models; sub-model; overall modelling error; inverse filtering; nonlinear zero-memory Volterra model; minimal spectral distance; nonlinear gain; speaker recognition

Class Codes: B6130 (Speech analysis and processing techniques); C1250C (Speech recognition); C5260S (Speech processing techniques)

Copyright 1995, IEE

Abstract: The article concerns techniques for obtaining, representing and comparing voice source signals. Closed-phase **formant frequencies** and bandwidths were estimated by fitting two linear auto-regressive models to a

File 348:EUROPEAN PATENTS 1978-2007/ 200737

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File 349:PCT FULLTEXT 1979-2007/UB=20070913UT=20070906

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Set	Items	Description
S1	12549	FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR
S2	710935	DISTANCE? ? OR SPACING? ?
S3	156738	S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)
S4	191098	THRESHOLD? ?
S5	172129	(S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREASES? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?)
S6	41666	SPEECH? ?
S7	1134	AU=(SAITO, M? OR SAITO M?)
S8	6	S7 AND S1
S9	0	S8(S)(S3 OR S5)
S10	167	S1(S)S3
S11	29	S10(S)S5
S12	15	S11(S)S6
S13	13	S12 NOT AD=20020929:20070919/PR
S14	75	S10(S)S6
S15	3	S14(S)S4
S16	3	S15 NOT S13
S17	2	S16 NOT AD=20020929:20070919/PR
S18	18	S14(15N)(ADJUST? OR REDUC? OR MINIMIZ? OR MINIMIS? OR DECR- EAS? OR SHORT?)
S19	12	S18 NOT (S17 OR S13)
S20	9	S19 NOT AD=20020929:20070919/PR
S21	20	S1(10N)S5
S22	17	S21 NOT (S20 OR S13 OR S17)
S23	12	S22 NOT AD=20020929:20070919/PR
S24	8	S23 NOT (PRINTER OR CASSETTE OR LASER)

13/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01267219

**Method and apparatus for dynamic segmentation of a low bit rate digital
voice message**

**Verfahren und Vorrichtung zur dynamischen Sprachsegmentierung einer mit
niedriger Bitrate kodierten Sprachnachricht**

**Procede et dispositif pour la segmentation dynamique d'un message vocal
code a bas debit**

PATENT ASSIGNEE:

MOTOROLA, INC., (205770), 1303 East Algonquin Road, Schaumburg, IL 60196,
(US), (Applicant designated States: all)

INVENTOR:

Satyamurti, Sunil, 6845 Blue Bay Circle, Lake Worth, FL 33467, (US)

Finlon, Kenneth, 15653 Bent Creek Road, Wellington, FL 33414, (US)

Huang, Jian-Cheng, 7074 Catalina Isle, Lake Worth, FL 33467, (US)

File 344:Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2007/Mar(Updated 070809)
(c) 2007 JPO & JAPIO
File 350:Derwent WPIX 1963-2007/UD=200757
(c) 2007 The Thomson Corporation

Set	Items	Description
S1	109725	FORMANT(3N)FREQUENC??? OR LINEAR()SPECTRUM()PAIR? ? OR LSP OR LINER()PREDICTION()COEFFICIENT? ? OR LPC OR VOCAL()TRACT()- RESONANT? ? OR VTR
S2	849741	DISTANCE? ? OR SPACING? ?
S3	114335	S2(7N)(CLOSE OR CLOSER OR NEAR??? OR SMALL??? OR LESS OR M- IN OR MINIMUM OR LESS?? OR LOWER OR LEAST OR MINIMAL)
S4	225271	THRESHOLD? ?
S5	150668	(S2 OR S3)(7N)(ADJUST? OR REDUC? OR MINIMIZ???? OR MINIMIS- ??? OR DECREAS? OR LESSENING OR LESSEN OR SHORT? OR CUT OR CU- TS OR CUTTING OR MODIF? OR ADAPT? OR ALTER? OR CHANG? OR CO- NVERT? OR CORRECT? OR MANIPULAT?)
S6	86216	SPEECH? ?
S7	31007	AU=(SAITO, M? OR SAITO M?)
S8	303	S7 AND S1
S9	7	S8 AND S3
S10	7	S9 NOT AD=20020929:20070919/PR
S11	306	S1 AND S3
S12	61	S11 AND S5
S13	2	S12 AND S4
S14	2	S13 NOT S10
S15	2	S14 NOT AD=20020929:20070919/PR
S16	9	S12 AND S6
S17	8	S16 NOT (S15 OR S10)
S18	7	S17 NOT AD=20020929:20070919/PR
S19	483	S1 AND S5
S20	13	S19 AND S6
S21	5	S20 NOT (S18 OR S15 OR S10)
S22	3	S21 NOT AD=20020929:20070919/PR

10/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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07973343 ****Image available****
VOICE PROCESSING DEVICE AND MOBILE COMMUNICATION TERMINAL DEVICE

PUB. NO.: 2004-086102 [JP 2004086102 A]
PUBLISHED: March 18, 2004 (20040318)
INVENTOR(s): **SAITO MUTSUMI**
APPLICANT(s): FUJITSU LTD
APPL. NO.: 2002-250362 [JP 2002250362]
FILED: August 29, 2002 (20020829)

INVENTOR(s): **SAITO MUTSUMI**

ABSTRACT